

ALMA ELIZA GUERRERO SÁNCHEZ | Resume

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PROFESSIONAL PROFILE

Computer Systems Engineering with a background in artificial intelligence. My experience as a data scientist and artificial intelligence engineer has allowed me to work in various fields for problem-solving using intelligent tools. It has also enabled me to develop strong analytical skills to extract insights and patterns from large datasets.

EDUCATION

UNIVERSIDAD AUTÓNOMA DE QUERÉTARO PhD engineering	July 2021 - December 2023 Querétaro, Qro
UNIVERSIDAD AUTÓNOMA DE QUERÉTARO Master of Science in Artificial Intelligence	July 2018 - December 2020 Querétaro, Qro
INSTITUTO TECNOLÓGICO DE QUERÉTARO Computer systems engineer	January 2018 Querétaro, Qro

EXPERIENCE

SOFTWARE DEVELOPER AND RESEARCHER Universidad Autónoma de Querétaro	January 2018 - December 2023 Querétaro, Qro
ARTIFICIAL INTELLIGENCE PROJECT DEVELOPER Freelancer	January 2018 - Present Querétaro, Qro
PROFESSOR OF THE DEPARTMENT OF SYSTEMS ENGINEERING Instituto Tecnológico de Querétaro	August 2021 - December 2023 Querétaro, Qro

SKILLS

PROGRAMMING LANGUAGE	Python R Javascript Java C C++ C# visual Basic SQL
FRAMEWORKS	Keras Pytorch (GPU/CPU) Tensorflow Jupyter Google Colab Numpy OpenCV scikit-learn Pandas Matlab Simulink App Designer
DATABASE MANAGEMENT SYSTEMS	MariaDB PhpMyAdmin MongoDB MySQLWorkbench MySQL
LIBRARIES & FOR DATA VISUALIZATION AND PREPROCESSING	Plotly Matplotlib Seaborn PowerBI Tableau PySpark DAX KubeFlow
FRAMEWORKS WEB APP	Flask Django
VERSION CONTROLLER	Github Gitlab
LANGUAGES	Native: Español Advanced: Inglés

COMPETENCIES

- Design and development of machine learning and deep learning algorithms for pattern extraction, data regression, data classification, feature extraction, and system optimization.
- Design and development of embedded systems based on the Internet of Things format for monitoring physical variables

- Design and development of web interfaces for monitoring and visualization using current frameworks
- Extraction, transformation, and loading of large volumes of data.
- Design and development of metaheuristic algorithms for the optimization of complex systems.
- Image processing, feature extraction, classification and analysis
- Digital signal processing, development of analog and digital filters.
- Preparation of scientific articles in Spanish and English.

SCIENTIFIC PUBLICATIONS AND SOFTWARE REGISTRATION. ---

- IoT Based Ambient Monitoring System for Intelligent Buildings (IEEE,2018)
- Face detection for efficient video-surveillance IoT based embedded system (IEEE,2018)
- Blockchain Mechanism and Symmetric Encryption in A Wireless Sensor Network (Sensors,2020)
- A Novel Methodology for Classifying Electrical Disturbances Using Deep Neural Networks (Technologies,2023)
- SAC: SIMULACIÓN Y ANÁLISIS DE CONVERTIDORES DC-DC PARA SISTEMAS DE GENERADORES DISTRIBUIDOS DE ENERGÍAS RENOVABLES (Número de Registro: 03-2022-082418511900-01) (Latin American Applied Research, 2024)